

Date: Wed, 22 Jun 94 03:03:12 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V94 #690
To: Info-Hams

Info-Hams Digest Wed, 22 Jun 94 Volume 94 : Issue 690

Today's Topics:

 "73's" (2 msgs)
 C200 controller
 Flagstaff hamfest
 Ford Explorer and TS-50 Noise
 FORUM
 Ham/Macintosh BBS
 KAM Plus
 Lead Acid Storage Batteries
 Old Handbook Ads
 Old QSTs available
 Relays
 Transmission Line Impedance: Why so many? (3 msgs)
 Yaesu FT416?
 You know its time to ret

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 22 Jun 1994 01:09:23 GMT
From: ihnp4.ucsd.edu!galaxy.ucr.edu!library.ucla.edu!europa.eng.gtefsd.com!
uhog.mit.edu!news.kei.com!ssd.intel.com!chnews!cmoore@network.ucsd.edu
Subject: "73's"
To: info-hams@ucsd.edu

Jeffrey Herman (jeffrey@kahuna.tmc.edu) wrote:
: National, Vibroplex, Johnson, Collins ... Jeff NH6IL

My favorite is "Learn code the easy way... The Instructograph Co." or how about a Heathkit DX-20 for \$3.60 down and \$3.02 per month?... sigh...

73, KG7BK, 00TC, CecilMoore@delphi.com

Date: Sun, 19 Jun 1994 03:37:00 -0600
From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!cs.utexas.edu!oakhill!val!afarm!fredmail@network.ucsd.edu
Subject: "73's"
To: info-hams@ucsd.edu

To: teacherjh@aol.com (Teacherjh)
On 06-14-94 Teacherjh wrote to All...

T > Therefore, 73 means "best wish". So, if you say 73, you are only
T > wishing the listener one wish. OK, it's your best one, but it's
T > still only one. If you want to be more ebulliant, use 73's. (Or you
T > can try 146, 219, or any of the other multiples of 73 to give a fixed
T > number of wishes.)

I still subscribe to the theory of "who really cares?". Surely after that argument is finished, they'll have to start the argument of whether it is pronounced "seventy-three" or "seven-three". I don't even wanna be NEAR the computer when that debate starts.. <grin>

* OFFLINE 1.56

Date: 21 Jun 1994 16:24:19 GMT
From: ihnp4.ucsd.edu!agate!spool.mu.edu!news.clark.edu!netnews.nwnet.net!reuter.cse.ogi.edu!flop.ENGR.ORST.EDU!news.csos.orst.edu!CSOS.ORST.EDU!colink@network.ucsd.edu
Subject: C200 controller
To: info-hams@ucsd.edu

I would like to know if any of you "Packet Hackers" have any info. on a Contronics C200 Micro Earth Station.
It was manufactured by Contronics. The division that made it is no longer in operation. It was bought out by GTE Spacenet. They will not give me any info on it. Depending on who you talk to you will get conflicting stories. Some say the info is proprietary some say it is not. The only info they have sent me is for a 40 foot earth listing station. The one I have is a scaled down model. ie:2.5 meter.

I hope to use this for packet radio someday. I am in the process of acquiring my "Ham" license now. Can anyone tell me how to use this "dish" and controller for listening purposes.

The "dish" came from a Farmers insurance agent that went out of business. I acquired it at an auction.

I can be reached at colink@kira.csos.orst.edu Thanks...Colin.

Date: Tue, 21 Jun 94 15:34:12 PDT
From: ihnp4.ucsd.edu!swrinde!howland.reston.ans.net!europa.eng.gtefsd.com!
uhog.mit.edu!news.kei.com!ssd.intel.com!chnews!news@network.ucsd.edu
Subject: Flagstaff hamfest
To: info-hams@ucsd.edu

ARCA (Amateur Radio Council of Arizona) is hosting the Fort Tuthill (Flagstaff), Arizona HAMFEST/FLEA-MARKET on July 22nd, 23rd, & 24th, 1994.

Fort Tuthill is located at the Flagstaff, Arizona airport exit #337, 3 miles south of I-40, on I-17.

Raffle tickets are \$2.00 each, 3 for \$5.00, or 60 for \$100.00

PRIZES: Grand prize: Yaseu FT-840 HF radio
First prize: Dual-band transceiver
second prize: MFJ-249 antenna analyzer/freq counter
early prize: Astron RM35 power supply

FREE admission TAIL GATE \$10.00 per space CAMPING \$5.00 per night

Activities include: Ladies programs
ARRL fourm
Club booths
Ham of the year award
Repeaters owners meeting
T-hunt
VE exams
Junque sale on Sunday
"HUGH" swap market

TALK-IN freq: 147.080+
442.125+

Date: 21 Jun 94 15:56:55 EDT
From: ihnp4.ucsd.edu!usc!math.ohio-state.edu!howland.reston.ans.net!
europa.eng.gtefsd.com!sundog.tiac.net!usenet.elf.com!rpi!psinnntp!main03!

landisj@network.ucsd.edu
Subject: Ford Explorer and TS-50 Noise
To: info-hams@ucsd.edu

In article <1994Jun16.141032.30750@arrl.org>, ehare@arrl.org (Ed Hare (KA1CV)) writes:

> Craig S. Young (craigs@lobby.ti.com) wrote:

>

> : I recently acquired a Kenwood TS-50 for mobile HF and installed it in my
> : 1992 Ford Explorer. With the key in the Accessory position (all electronics
> : fired up but engine not running), the noise on HF is S9 or better across
> : all bands, but most accute on 17 and 20m. Anyone out there in netland
> : solved this problem already???

>

> This is almost certainly due to a well-known Ford problem -- electrical
> noise from the fuel pump. Ford has identified this problem and written up

I think the fuel pump only has power applied to it when the key is in the ON position, not ACC. I would suspect some under-dash electronics instead.

Joe

--

Joe Landis - System & Network Mgr. - North American Drager Co. Telford, PA
landisj@drager.com | uupsi5!main03!landisj | AA3GN@WB3JOE.#EPA.PA.USA
Opinions are mine only, and do not reflect those of my employer.

Date: 22 Jun 1994 02:30:34 GMT
From: ihnp4.ucsd.edu!usc!math.ohio-state.edu!mane.cgrg.ohio-state.edu!
aus1.robins.af.mil!wrdis02.robins.af.mil!lakeith@network.ucsd.edu
Subject: FORUM
To: info-hams@ucsd.edu

MINOR.LARRY@biloxi.va.GOV wrote:

: NEEDED: I AM IN DESPERATE NEED OF A REPLACEMENT "SQUIRREL CAGE" TYPE
: COOLING FAN FOR A DRAKE L4B AMPLIFIER, WHICH IS NOT AVAILABLE FROM DRAKE.
: IT MEASURES 2 AND 11/16 INCH IN DIAMETER AND 1 AND 1/4 INCH IN THICKNESS
: WITH A SHAFT OPENING OF 1/4 INCH WITH A CLOCKWISE ROTATION. THE ONE I
: HAVE WAS MANUFACTURED BY "THE TORRINGTON MFG CO" WITH THE MARKINGS OF "GA
: 216-108-1". THE ADDRESS AND/OR PHONE NUMBER OF "THE TORRINGTON MFG CO"
: WOULD BE HELPFUL. ANY KNOWLEDGE OF A REPLACEMENT FOR THIS FAN WOULD BE
: GREATLY APPRECIATED.

Visit or call W.W. Grainger or Grainger.. They stock a lot of cooling fans and can probably find you a suitable substitute..

73,

Larry, KQ4BY

Date: 21 Jun 1994 23:05:28 GMT
From: swrinde!howland.reston.ans.net!europa.eng.gtefsd.com!newsxfer.itd.umich.edu!
jobone!lynx.unm.edu!news.cs.indiana.edu!nstn.ns.ca!news.unb.ca!torn!uunet.ca!
uunet.ca!ionews@ihnp4.ucsd.edu
Subject: Ham/Macintosh BBS
To: info-hams@ucsd.edu

Gallery's BBS moved to a new phone number at 202-298-6009.
We feature Macintosh shareware for ham radio and other general use
files for the Mac. The system is free and all callers are welcome. No
download/upload ratios or any other restrains.
Settings are standard modem ones and it supports calls up to 9600 bd
Thanks for reading this and hope to see a few more users logging in..
73's de Paulo, N3MGA
paulot@cais2.cais.com

Date: Wed, 22 Jun 1994 03:29:18 GMT
From: ihnp4.ucsd.edu!library.ucla.edu!csulb.edu!csus.edu!netcom.com!
ronb@network.ucsd.edu
Subject: KAM Plus
To: info-hams@ucsd.edu

Would like to hear from anyone who is using the KAM Plus modem. I'm considering
buying one and would appreciate a frank appraisal on the unit. Would also like to
hear some comments on the companion software KAM Gold.

Thanks.

Ron Barrett
K6MZW

Date: 22 Jun 1994 02:51:29 GMT
From: ihnp4.ucsd.edu!swrinde!howland.reston.ans.net!torn!newshost.uwo.ca!gateway!
mail@network.ucsd.edu
Subject: Lead Acid Storage Batteries
To: info-hams@ucsd.edu

I have aquired some sealed lead acid cells (plastic pack containing 6
cells rated for 5AH) and am trying to figure out the proper charge

current for them. I don't want to over-charge them (or under charge)

Date: Wed, 22 Jun 1994 07:03:49 GMT
From: news.Hawaii.Edu!kahuna!jeffrey@ames.arpa
Subject: Old Handbook Ads
To: info-hams@ucsd.edu

In article <2u8303\$b3h@chnews.intel.com> cmoore@ilx018.intel.com (Cecil A. Moore -FT-~) writes:

>My favorite is "Learn code the easy way... The Instructograph Co." or
>how about a Heathkit DX-20 for \$3.60 down and \$3.02 per month?... sigh...

Or the ad for World Radio Labs:

WRL ``40'' Trotter - Capable of 25 watt input on phone and 40 watt input on CW on all bands from 1500KC through 30 megacycles.
Wired: \$79.50 Kit \$69.95

Looks to be about 2ft x 2ft x 1ft - a mini-boatanchor

Or the Vibroplex 'Champion' for \$9.95

Jeff NH6IL

Date: Tue, 21 Jun 1994 22:23:51 GMT
From: news.Hawaii.Edu!kahuna!jeffrey@ames.arpa
Subject: Old QSTs available
To: info-hams@ucsd.edu

In article <16FDC8C73.AEZKENT@vmd.cso.uiuc.edu> aezkent@uicvmc.aiss.uiuc.edu writes:

>Although I am not a ham I have for years been dragging some old QST's around
>with me. These are mostly from the 30's into the 50's and mostly complete
>although no longer pristine. Anyway I would like to get rid of them,
>preferably to someone who can pick them up in the Champaign-Urbana IL area.
>

>So the first person (if anyone wants them) who can arrange to pick them up
>can have them. If you email me and I don't respond someone else got them.
>

PLEASE PLEASE donate them to a library so that a large number of people can enjoy reading them rather than to a collector who will store them away out of sight. Your nearest college library will gladly accept them - contact the science/technology reference person - they will know

the worth of those journals.

Jeff NH6IL

Date: Tue, 21 Jun 94 16:09:39 PDT
From: ihnp4.ucsd.edu!library.ucla.edu!europa.eng.gtefsd.com!uhog.mit.edu!
news.kei.com!ssd.intel.com!chnews!news@network.ucsd.edu
Subject: Relays
To: info-hams@ucsd.edu

Can anyone tell me where I might find (purchase cheaply) some 12-24 VDC relays that I can use to switch in/out my 2m and 70cm antenna preamps? I need to take the preamps out-of-line before transmitting. They need to operate at 145 and 443 MHz with minimum signal lost and capable of handling 150 watts of RF output power. I prefer PC mount type so I can mount them inside the preamp bud box. Coaxial relays (Dowell or Tohtus) are big and require coax connectors.

Thanks, Tom WB7ASR...

tom_boza@ccm.hf.intel.com

Date: 22 Jun 1994 01:17:28 GMT
From: ihnp4.ucsd.edu!library.ucla.edu!europa.eng.gtefsd.com!uhog.mit.edu!
news.kei.com!ssd.intel.com!chnews!cmoore@network.ucsd.edu
Subject: Transmission Line Impedance: Why so many?
To: info-hams@ucsd.edu

Tom Bruhns (tomb@lsid.hp.com) wrote:
: This is easy to see if you realize that the
: max current is at the load, ... Tom -- K7ITM

By Golly, Tom, I think you're on to something. If the maximum current is at the load and the load is resistive, then the load is soaking up more power than the generator is putting out... that's pretty efficient.

:-) (The devil made me do it) 73, KG7BK, 00TC, CecilMoore@delphi.com

Date: 22 Jun 1994 02:15:07 -0400
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!news.ans.net!newstf01.cr1.aol.com!
search01.news.aol.com!not-for-mail@network.ucsd.edu
Subject: Transmission Line Impedance: Why so many?

To: info-hams@ucsd.edu

<deleted>

Those sob's that taught me in college made me derive this stuff, and then I find out that it's done in Chipman, "Transmission Lines " (Schaum's outline series--if you have a vaguely technical bookstore nearby, especially in a college town, they will have it--and I guarantee you, it's one of the very best references on transmission lines you will ever own).

1. For maximum power handling capability, $Z_0=35$ ohms (or so) is optimum. That's why that standard value exists.
2. For minimum attenuation per unit length, $Z_0=75$ ohms (or so) is optimum. That's why that value exists.
3. The compromise between these two optimum values is nearly 50 ohms (geometric mean). Perhaps that's how that value came about...just my guess.

scott nx7u@aol.com

Date: Tue, 21 Jun 1994 15:13:00 -0500

From: ihnp4.ucsd.edu!library.ucla.edu!europa.eng.gtefsd.com!

howland.reston.ans.net!gatech!ncar!asuvax!pitstop.mcd.mot.com!mcdphx!schbbs!

mothost!lmpsbbs!NewsWatcher!user@network.ucsd.edu

Subject: Transmission Line Impedance: Why so many?

To: info-hams@ucsd.edu

In article <1994Jun20.171318.15876@ke4zv.atl.ga.us>, gary@ke4zv.atl.ga.us (Gary Coffman) wrote:

> In article <2u44fg\$16s@sol.sun.csd.unb.ca> a4q4@jupiter.sun.csd.unb.ca (D.J.Trynor EE) writes:

> >It seems that there are so many transmission lines impedances (i.e 50, 75, > >300 ohms).

> >Is there a technical reason for this or was it merely a development of > >different standards?

>

> At least for coax, there are technical reasons. 75 ohm *air line* (actually > 76.708 ohms) has the lowest loss of any impedance coax. If we replace > the air with polyethelene, we have 50 ohm cable (actually 51.02 ohms).

> That's because the ratio of conductor diameters for lowest loss is 3.59112:1 > in both cases, the dielectric making the difference in surge impedance.

>

> Gary

>

>

> --


```
> Gary Coffman KE4ZV          | You make it,      | gatech!wa4mei!ke4zv!gary
> Destructive Testing Systems | we break it.     | uunet!rsiatl!ke4zv!gary
> 534 Shannon Way           | Guaranteed!      | emory!kd4nc!ke4zv!gary
> Lawrenceville, GA 30244    |                   |
```

--

Don/Gary,

In their August, 1969 edition of "What's New From Bird", a news letter from Bird Electronic Corp., there is a "refresher" essay on transmission line parameters. They describe the three parameters of interest for any given outer conductor diameter of coax, the minimum attenuation, the maximum breakdown voltage, and the maximum power carrying capacity. The impedance's that result for air line to optimize each are about 77 (close enough to your 76.708 Gary, when you consider that those were the days of the slide rule), 60, and 30 ohms, respectively.

However, buried in the article is a very interesting comment. "According to Consultant C. L. Rouault, who was present, an RMA committee in the 40's recommended to the U.S. Navy that an impedance of approximately 50 ohms be selected the standard as a compromise between transmission parameters, as well as commercially available copper water-tubing sizes."

Allen Davidson Motorola Inc. CASR04@email.mot.com

Date: 22 Jun 1994 02:10:23 GMT

From: ihnp4.ucsd.edu!swrinde!gatech!howland.reston.ans.net!news.ans.net!
mailhost.interaccess.com!hopken@network.ucsd.edu

Subject: Yaesu FT416?

To: info-hams@ucsd.edu

Can anyone tell me the difference between a Yaesu FT411 and a Yaesu FT416? Thanks...

--

=====

Ken Hopkins WA9WCP | Internet - HOPKEN@interaccess.com
Disaster Team - | AMPRnet - 44.72.1.162
American Red Cross | AX.25 - WA9WCP@W9ZMR.IL.USA

Date: Sun, 19 Jun 1994 03:38:02 -0600

From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!cs.utexas.edu!oakhill!val!afarm!
fredmail@network.ucsd.edu

Subject: You know its time to ret

To: info-hams@ucsd.edu

To: md@pstc3.pstc.brown.edu (Michael P. Deignan)

On 06-15-94 Michael P. Deignan wrote to All...

MP> ... you're talking on the phone with a ham buddy, and you end the
MP> conversation and hang up the phone with a 'KD1HZ clear'.
MP>

No joke! I worked at a radio station and answered the phone with MY callsign instead of the station's callsign quite a few times...

I've almost "signed off" at the end of phone conversations with non-hams. That would have been IMPOSSIBLE to explain!

Or have you ever meant to say "okay" to someone, but mistakenly said "QSL"? Very embarrassing... :)

* OFFLINE 1.56

Date: 21 Jun 1994 15:39:20 -0700

From: ihnp4.ucsd.edu!library.ucla.edu!europa.eng.gtefsd.com!uhog.mit.edu!
news.kei.com!ssd.intel.com!chnews!ornews.intel.com!ornews.intel.com!not-for-
mail@network.ucsd.edu

To: info-hams@ucsd.edu

References <2u42b3\$pt2@gdls.com>, <rogjdCrr6uG.AFG@netcom.com>,
<mcleman.45.000D7517@zso.dec.com>ne

Subject : Re: Ham Radio in WA State

In article <mcleman.45.000D7517@zso.dec.com> mcleman@zso.dec.com (Jeff McLeman) writes:

>

>Your mostly talking about the Evergreen Intertie. It is a nice system that
>links Oregon, Washington, Idaho, Montana up together. It's only problem is it
>is not a long QSO system. 2 minutes MAX. Lots of breaks. All the new commers
>end up there, because most people are willing to talk to them, unlike some of
>the local no-interlinked machines.

>

>I myself stay on 440 and 1.2 Ghz. 2 meters is kinda boring here.

>

>Jeff

>Redmond, Wa.

>KD1IT /7

>

The Seattle area has lots of 222 Mhz repeaters and even some activity there. So don't forget the 'forgotten band' I operate on 224.94 down here in the Portland area. Jeff is right about 2 meters except simplex which I enjoy on 146.52 and other freqs. 223.50 is active in the Northwest as well. I even had a short chat with some bootleggers on 223.50 while flying air-mobile up around Toledo, WA. You would think they would pick another freq besides the 'National Simplex' channel for 222 Mhz. Course the packeteers have kinda taken over the other 222 simplex voice freqs since they got booted outa the basement of that band.

The Evergreen Intertie is kinda fun to listen to, no fun to talk on. They have a Northwest-wide weather check about 8:00 every morning for instance. Many mountain top repeaters are in the NorthWest with good coverage while the ham population density is relatively low. Repeaters with excellent locations and coverage go pretty much unused in Eastern WA and OR.

--

zardo@ornews.intel.com WA7LDV

Date: Tue, 21 Jun 1994 09:43:10 GMT
From: psinntp!arrl.org!ehare@uunet.uu.net
To: info-hams@ucsd.edu

References <2tocfr\$79b@news.icaen.uiowa.edu>, <2tomr7\$j2g@bmerha64.bnr.ca>, <150@coutts.UUCP>
Subject : Re: You know its time to retire from the hobby when....

You know it's time to retire from the hobby when ...

you think it really matters if someone says 73's instead of 73.

--

Ed Hare, KA1CV, ARRL Laboratory, 225 Main, Newington, CT 06111
203-666-1541 ehare@arrl.org

Date: (null)
From: (null)
Can anyone steer me to the proper procedures or charger design theory.

Yes, I suppose I could buy a cheap automotive type charger but I've got all kinds of transformers and diodes etc. kicking around and would like to try and use them up.

Thanks in advance for any help you can offer.

lbol@julian.uwo.ca

Date: Tue, 21 Jun 1994 22:18:41 GMT
From: news.Hawaii.Edu!kahuna!jeffrey@ames.arpa
To: info-hams@ucsd.edu

References <CrK1Fn.658@wang.com>, <2tsvr5\$mjm@chnews.intel.com>,
<Crr4E0.JMJ@wang.com>(
Subject : Re: "73's"

cmoore@ilx018.intel.com (Cecil A. Moore -FT-~) writes:

>Dave, my 1957 ARRL Handbook lists the meaning of 73 as "Best Regards" ...
>and also lists 26.93-27.23 MHz as a ham band. :-)

Cec: I've got the 1950 edition - don't you just love those ads in the
back? Over 100 pages of boatanchor goodies: Hallicrafters, Allied,
National, Vibroplex, Johnson, Collins ...

.73, <-----my usual output power
Jeff NH6IL

End of Info-Hams Digest V94 #690
